

FIGURE 1

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Peptide	Amino acid sequence
1	DNTAQTSAYIQYEPHHSI
2	GPGHWDR
3	AAFDGSGQR
4	FAMGALPD
5	FTASLDEWTTAAR
6	VDASFRPQGX LAP

FIGURE 2

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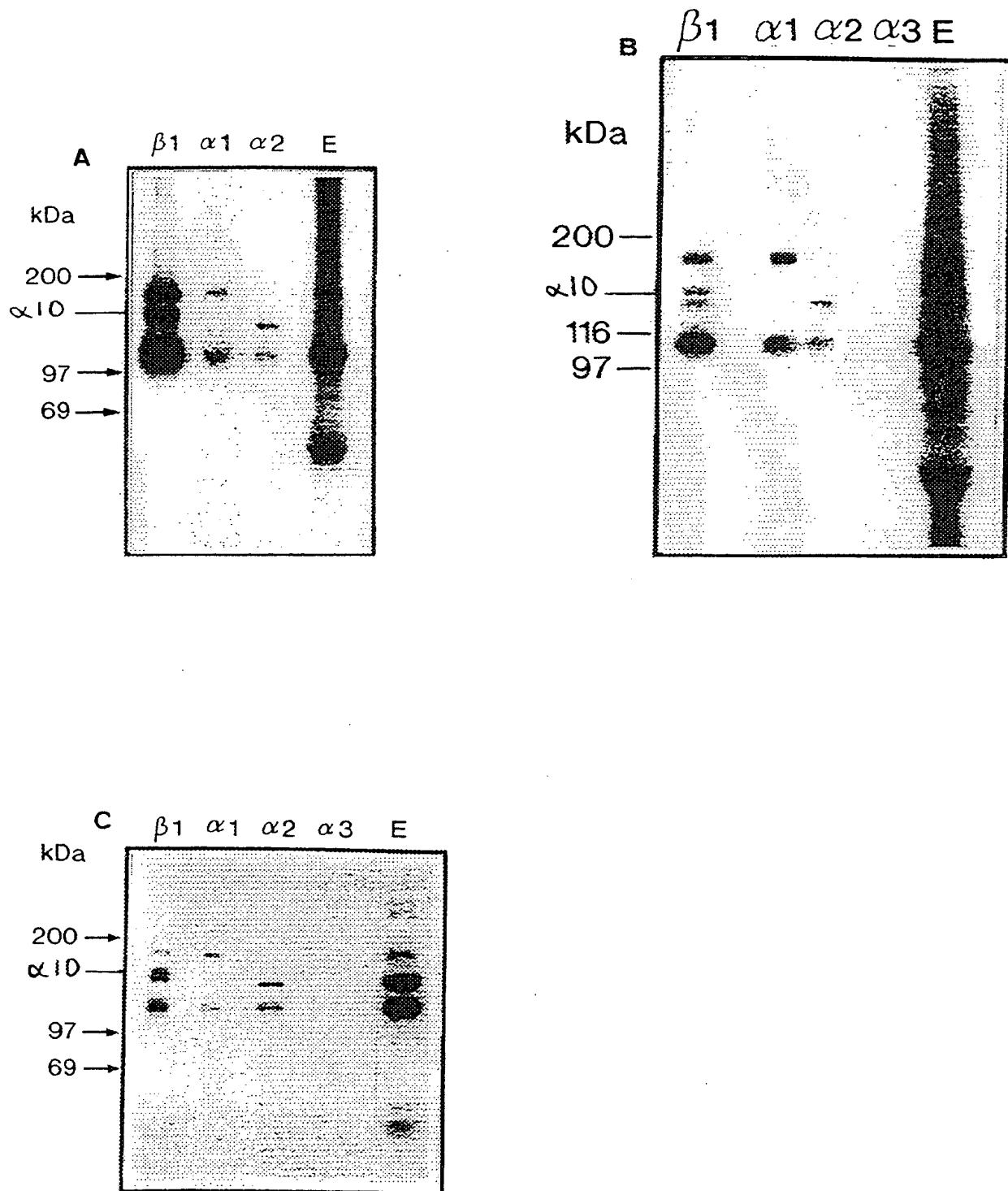


FIGURE 3

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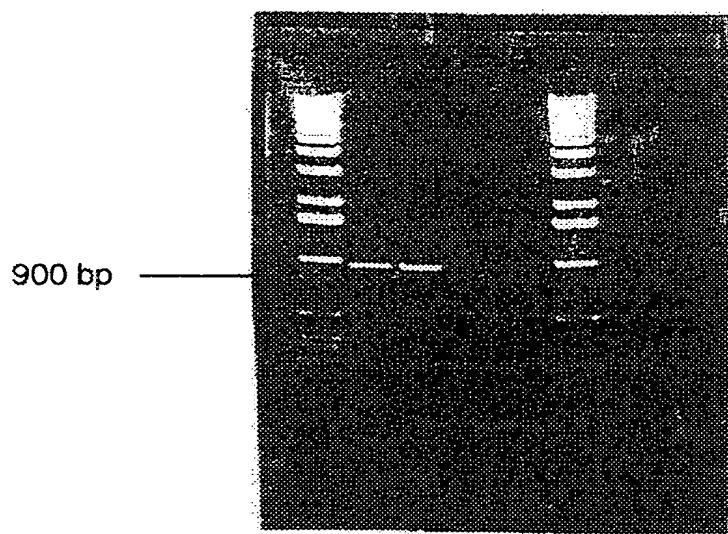


FIGURE 4

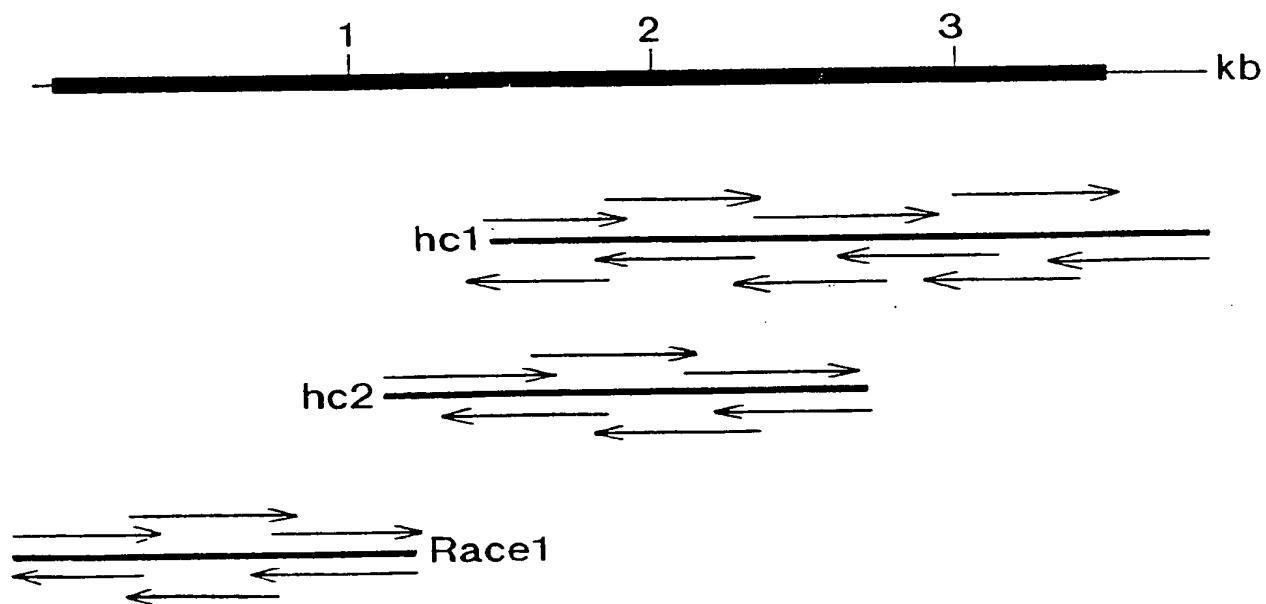


FIGURE 5

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CAGGTAGAAACCGATCAGGCATGGAACTCCCTTCTGCACTCACCTGTCAGCCCCCTGGTCTCTGACA	72	CATCTGCCAGAGGATGCTGCTGCCATGCCACATGCCCTCAGCTACTTGGCCGAGTGTGGATGGT	1872
M E L P F V T H L F L P L V F L T	6	H P A O R I A A A S M P H A L S Y F G R S V D G	593
G G T C T G C T G C C C C T T T A C C T G G A T G A C A T C A C C C A C C E T T A T C C C A G G G C A C C A G A A G T G A T T	144	C C G C T A G A T C T G G A T G G A G A T G A C T C T G G C A T G A T G G C T G G G G T C C C A G G G G C A G C C A T C C T G C T C A G C	1944
G L C S P F T H L D E H H P R L F F G P P E A Z F	19	R E D D L D G D D D L V D V A V G A Q G A R I L L S	619
G C A T A C A G T G T C T A C A C A T G T T G G G G G T G A C A C G G A T G G A T G C T G T G G G G C C C C T G G A T T G G G C C T	216	T C C C G G C C A T T G T C A T C T G A C C E C A T A C T G G A G G T G A C C C A C A G G C C A T C A G T G T G T T C A G A G G G A C	2016
G Y S V L O H V G G G Q O R R M H L V G A P W D G P	43	S R P I V H L T P S L E V T P O A I S V V O R D	613
T C A G G G A C C G G A G G G G G A E G T T I A T C G C T G C C C T G A G G G G G C C A C A A T G C C C A T G T G C A A G G G C	288	T G T A G G C C G G A G G C C A A G A G G A C T G T G T G A C T G C A C C C C T T T G C T C A G T G A C C T C C G T A C T C C T	2088
S G D R R G D V Y R C P V G G A H N A T C A K G	67	C R R R G Q E A V C L T A L C F Q V T S R T P	667
C A C T A G G T G A C T A C C A A C T G G G A A T T C A T C T C A C T C C T G C T G T G A A T A T G C A C C T G G G G A T G T C T G T A	360	G O T G C T G G A T E C C A C C A T T C A C T G A G G G T C A C C G C A T C T G G A T G A T G C T G E T T G G C A C G T C A	2106
H L G D Y Q L G H S S H P A V H M H L G H S L L	91	G R M D H Q F Y H R F T A S L D E W T A G A R A	691
G A G R A G A T G G T A T G G G G G A T T C A T G G C T G T G C C C T C T G G G T C T G T G C A G G C A G T G T G I C T C	432	G C A T T G A G G C C T G G C C A G A G G T G T C C C C T G G G G G A T G T C A C T T G I G A G G A T G T C A C T T G I G A G	2232
E T D G D G G F H A C A P L W S R A C G S S V F	115	A F T G A T G S P R R L R L S V G H V T C E	715
A G T T C G G A T A T G T G C C C G T G G A T G T C T A T T C C A G G C T C G G C A G C C A C T G C E A A G C	504	C A G C T A C A T T C C A T G T G C T G G A T A C A T C A G A T T A C C T C C G G C A G T G G C C T T G A C T G T G A C C T T G C T G	2304
S S G I C A R V D A S F O P O G S L A P T A O R	139	Q L H F R V L D T S D O L R P V A L T V T F A L	739
T G C C C A M A T A C A T G G A T G T G C A T T C T T C T G A T G C C T C C A C A G G A T A C C C C T G G T C T G A A G T T C A G	576	G A C A T A C T A C A A G G C A G G G C C T G T G C T G A A T G G G G G C A G T G T C C C C T C A C C C T C T A T A C A A A G G C T G G T C C C T C	2376
C P T Y H D V V I V L D G S H N S I Y P W S E V Q	163	D H T T K P G P V L N E G S P T S I C K L V F T	763
A C C T T C T A C G A G A C T G G T A G G G A A C T G T T T A T T G A C E C A G A C A G A T A C A G G T G G G A C T G G Y A C A G T A	648	* T C A A G G A T G T G C C C T G A C A T G A T G T G T C A C A G G C T G T G C T T C A G T G A T T A T G G A C A T C A G G C	2448
T F L R R L V G K L F D P E Q I P O V G L V Q Y	187	S K D C G P D N E C V T D L V L Q O V K M D I R G	787
G G G C A C G C C T G T A C A T G A T G G T C C C T G C C A G A T T C C G C A G A C G A A G A T G G A C G C A A A G	720	T C A G G A G G C C C A T T T G T G T G A G G G T C A C T G T G T G T G T G T G T A C A C T C T G G A G A C A G A	2520
G E S P V H B W S L G D Y F T R T K E V V R A K A	211	S R K A P P F V V R G G R R K V L V S T T T L E H R	811
A A C C T C A G T G G G C G G A G G A C G A G A M C A A A G T C C C A M G C A A T A A T G G T G G C C T G C A C A G A G G G T C	792	A N G G A A A T T G C T T C A A T A C G G C C T G A C T A T C A T T C T C T C A G A A C C T C A C C C T G G C C A G T C T A C T C C T	2592
N L S R R E G R E T K T A Q A I H V A C T E G F	235	K E N A Y X T S L S I I F S R N L H I L A S L T P	835
A G T C A G T C C A T G G G G G C C A C C G A G G E T C C C A G G C T A C T G T G T T C T C A T G T G A C G A T C C C A T G A T	864	C A G A G A G G C A C C C A A T A A M G G T G E A A T G T G C C C C C C T T C T G C T C A T C C C C G C T C T G C A G T G T G G G G A T	2664
S Q S H G G R P A R K A L L V V V T D G E S H D	259	Q R E S P I V K V E C A A P S A H A R L C S V G H	859
G G A G A G G A G C T T C G C A G A C T A A N G C C T G T G G A G G C T G G A G A G T G A C C G C T A T G G G A T T G C A G T C T	936	C C T G T T C T C A G A C T G G A G G C A A M G T G C C T T C T G C T G A T G T G A C T G T G C T C T C T C T C T C T C G A C C	2736
G E L P A A L K A C E A G R V T R Y G I A V A L	283	P V F O T G A V K T F L L E F F E S C S S L L S	803
G G T C A C T A C C C C G G C A C C G A G A T C C C A G C T T T C T G C G A G A A A T T G A C T T T G C C A G T G A T C C A	1008	C A G G T C T T T G G A G C T G A C T G C C A C G T G C A C G C T G G A G A A T T G C C A C C T T C A G A A A A C A G C C	2808
G H Y L R R Q R D P J S F L R Z I R T I A S D P	307	Q V F G K L T A S S D S L E R H G T L O E N T A	907
G A T G A C G A T T C T C T C A A T G C A C A G T G A G G G T G C T G A C T G A C T G A T G O G A T G E A T T G A G G A T C G S	1080	C A G A C T C A C C T A C A C C A T A G C O C C C C A C C T C T G T C T G A C T G A G I T C A C C T C T G C A C C G T A T G A G	2880
D E R F F F H V T D E A L T D I V D A L G D R	331	O T S A Y I O Y E P H L L S S E S T L H R Y Z	931
A T T T T G C C T C G G A A G G C C A T G C A G A A A C G N A G C T C C C T T G G G A T G T C T G A A G T G G T C	1152	G T G C A C C A T A T G G G A C C C T C C A G T G C T C T G G C C A G A A T T C A A M A C C A T C T C A G G G T T C A G A A C C T A	2952
* F G L E G S H A E N S Z S F G L E N S O I G F	355	V H P L T P V G P G F E K T T L R V O N L	955
T C C A C T C A G C T T A A G G A T G G G A T T T T T G G G A T G G T G G G G C T A T G A C T G G G A G G T C T G G T C	1224	G G C T G C T A T G G T C A G T C A G T C A C T C A A T G C A G C G C T A T G T G C C C A T G G G G C A A T T A C T C C	3024
S T H R L K D G I L F G H V G A Y D W G G S V L	379	C T A T C A C T G T C T C A G T C A T C A A T G C A G C G C T A T G T G C A G A C C T C T G A C T G A C T G A C C C C A	3096
T O G G T C A G A G G G C A C C C C T T T C C C C A C C A T G C C A C T G G A G G C A G T T C C C C C T G C A G T G C A G	1296	L S L S O V I T H H A S C I V O N L T E F P P G P	1003
V L E G G G H R L E P P R A H L E D E F F P A L Q	403	C C T G C A C T C A G G G A C C T C A C A C A C A C A G A C T G A T G G T G C A G G G C A A T T A C T C C T C G A G G G C A A T T A C T C	3168
A N C A T G C A C C T A C T C T G G G T T A C T C T G T T C T C A G C T T T G G G G G T G G A C C C C C T G T T C T C	1368	P V H P B E L O H T F L R N G S H T O C Q V V R	1027
N H A R A Y L G S V S S M L L F R L L S	427	T C C A C T T C G G C A C G C T C A A G G G A C T T G A G G G C T T G G G G C T T C A G A N G A T T G G G G C T T C A G A N G A T T	3240
G G G G T C C T C G A T T A G A C A T G C G G A A A A T C A T C C C T C A G C T T A A G A A G A T G C C C T G T G A G G G T	1440	C H L G O L A K G T E V S V G L L R L V H N E P	1051
G A P R T R R H G K V I A F O L K R D G A V R V	451	T T C C G A A G C A C A G G T C A G T C T C C T G G C A C G C T T G G G G G C A A T T G G G G C A A T T G G G G C A A T T G G	3312
G C C G A G A C C T C C T C G G G G G C A G A C T T G G T C A T A C T T G C A G T G A C T G C T G C C A T T G G A A G G G C A G A C T G C	1512	F R R A K F K S L T V V S T F E L G T E E G S V	1075
A O S L Q G E O I G S Y F G S E L C P L D T D R	475	C T A C A C T G A C T G A G G C T C T C C C T G G A G G C A C C T T G G G G G C A A T T G G G G C A A T T G G G G C A A T T G G	3384
G A T G G A N C A C T G A T G T C T A C T T G G C T G C C C C A T G T T C T G G A C C A G A C A G A C A G G A A C A G G A C T G C	1584	L O L T E A S R M W S E S L L E V V O T R P I L I	1099
D G T T D V L L P M F L G P K B T G R	499	T C C C T G T G G A T C C T G A G G C A C T G G G G G C A A T T G G G G C A A T T G G G G C A A T T G G G G C A A T T G G	3456
G T T T A T T C T A T C T G G T A G G G C A C G A C T C T G G C T G A C C C T C A A G G A C A C T T C A G C C A G A C C C C C C A G	1656	S L M I L I G S V L G G L L L A L L F C L W	1123
V V V Y L V G Q O S L L T L O G T L O P E P P Q	523	A A G C T T G G G C T T G C C A T A A G A A A A T C C C T G G G G A A A A A G G A G A G G A C T T G G G G C A A T T G G G G C A A T T G G	3528
G A T C C G G T T G G C C T T G C C A T G G G A G G C T C T C T C T G A T G A C C A G A T G G T T T C T G A T G T G G C T G C	1728	K L G F F F A H K K I P E E B K R E E K L E O	1145
D A R E G F A M G A L P D L N O D G F A D V A V	547	T A G A T A A G G G C T T G A A G T G C C C T G G G G A C G T T C A A G A G A C T T G G G G A A A A A G G A G A G G A C T T G G G G C A A T T G G	3600
G G G G G C C T T G G A A G A T G G G G A C C A G G G A C A C T G T A C C T G T A C C A T G G A C C C A G T G G A G G T C A G G C C	1800	G C T C A G G T G G G C A A G A C C G C C T T G G A G G C A C T T G G G G G C A A T T G G G G C A A T T G G G G C A A T T G G	3672
G A P L E D G H Q G A L Y L Y L H G T O S G V R P	571	A G G G A T G C T G C T G A T G A G A T G G A G G G A C C T G C A T G G G G A C C T G G G G C A A T T G G G G C A A T T G G G G C A A T T G G	3744
C A C C C T G T G C T G C T G G G G C A A C T G G G G G C A A C T G G G G G C A A T T G G G G C A A T T G G G G C A A T T G G G G C A A T T G G	3816	T A C C C T G T G C T G C T G G G G C A A T T T T T G C T G A G G A A A A A A A C G G G G G C G G A A T T G C G A T A C A G C T	3884

FIGURE 6

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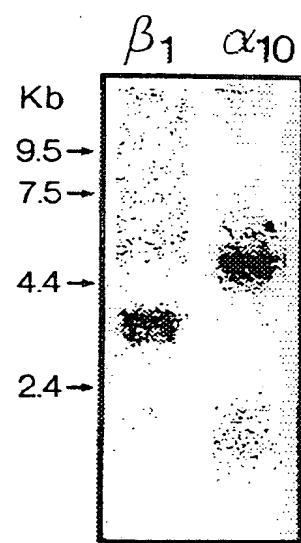
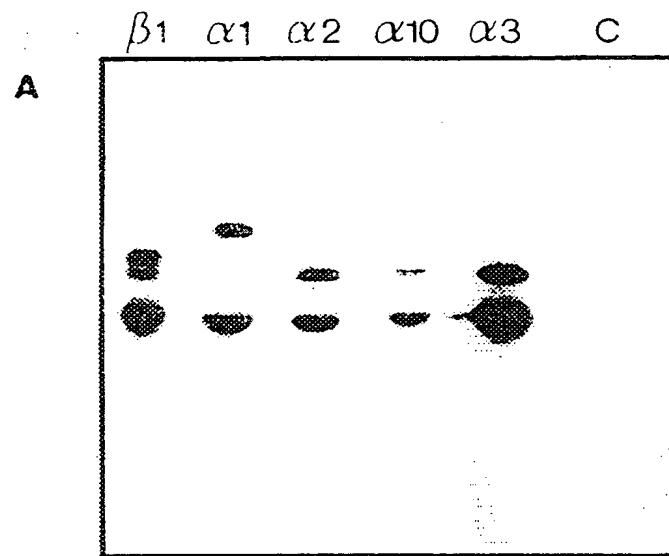


FIGURE 7

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B IP: α₁₀ β₁
Blot: β₁ β₁

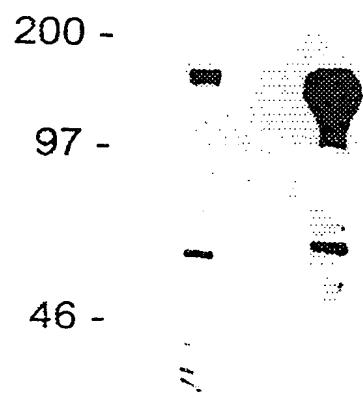


FIGURE 8

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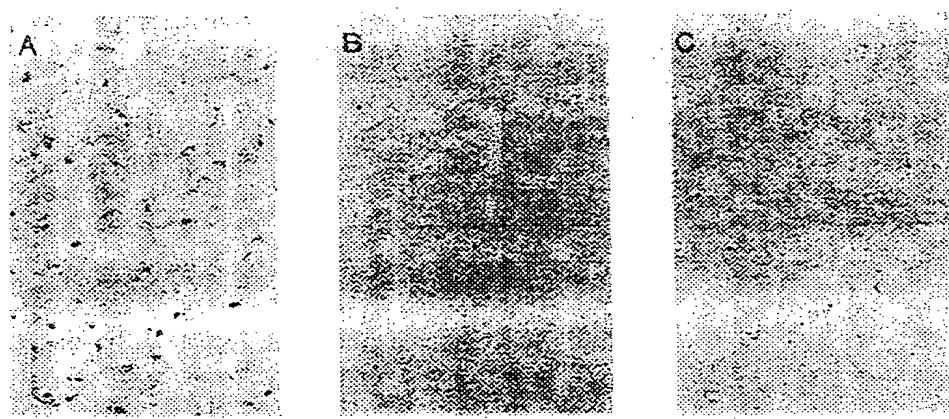
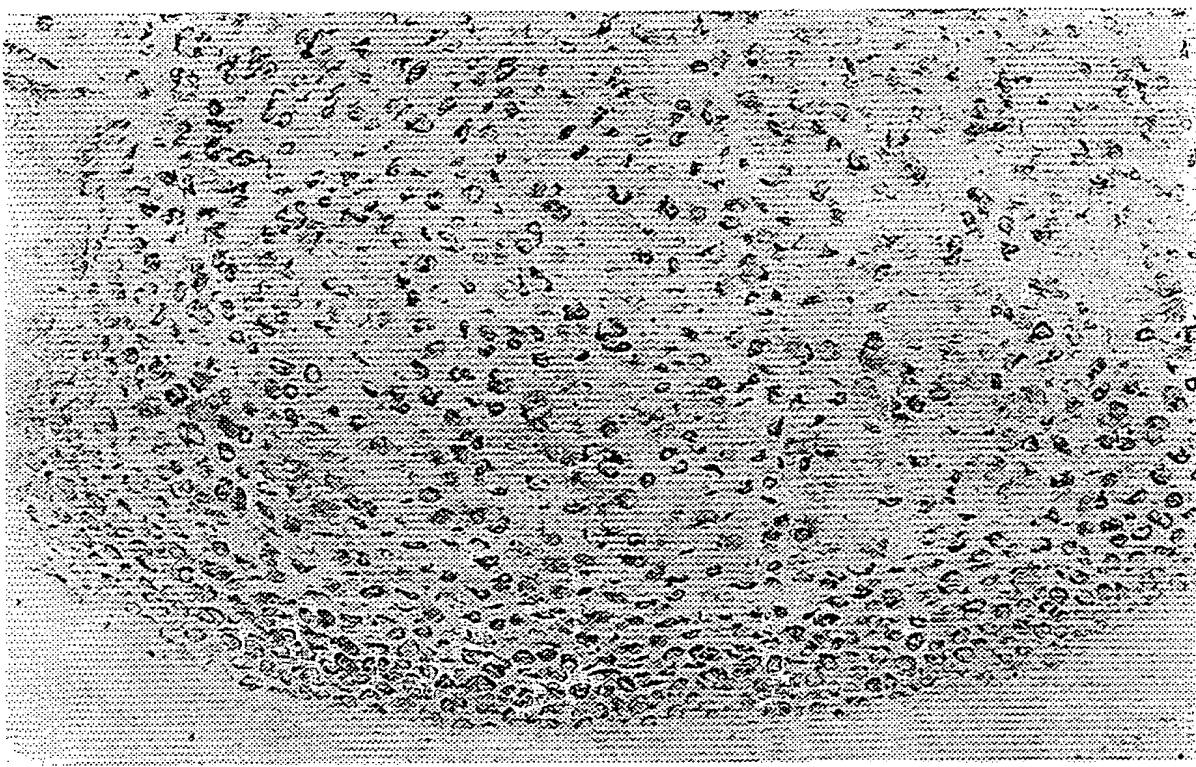


FIGURE 9

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A



B

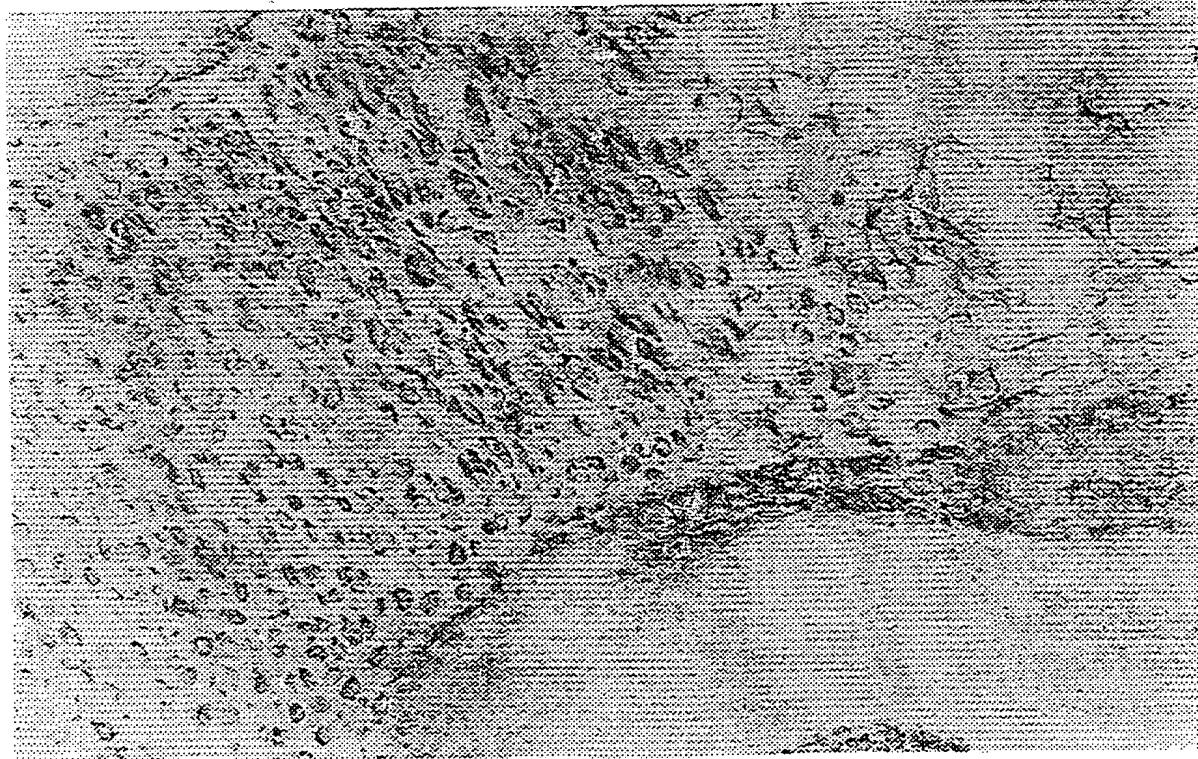
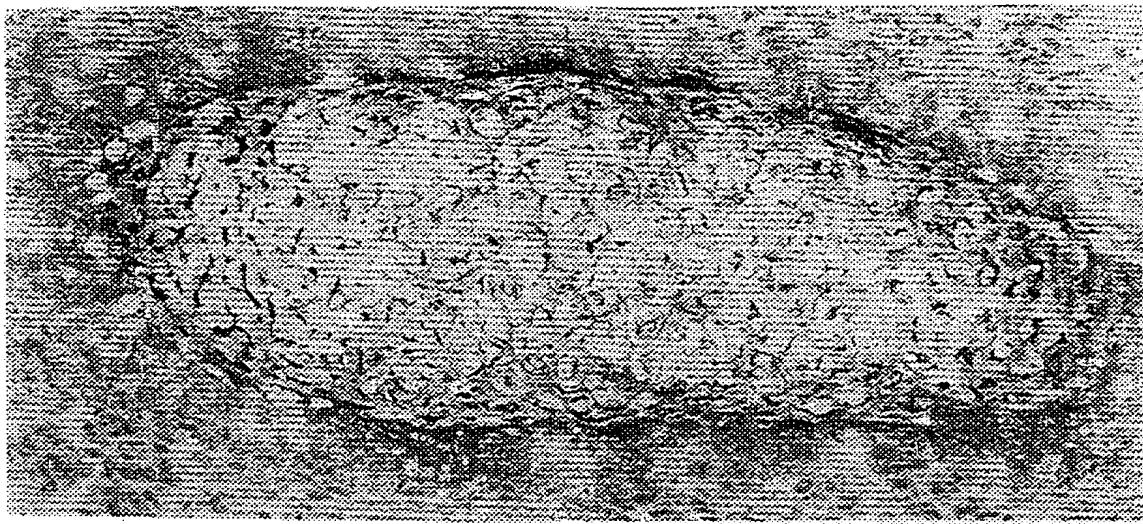


FIGURE 10

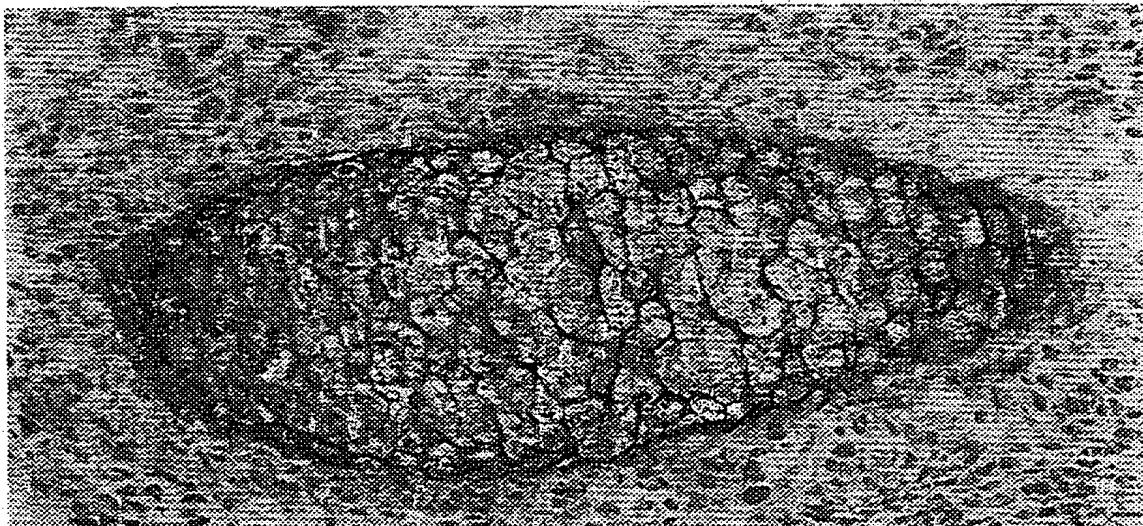
SUBSTITUTE SHEET (RULE 26)

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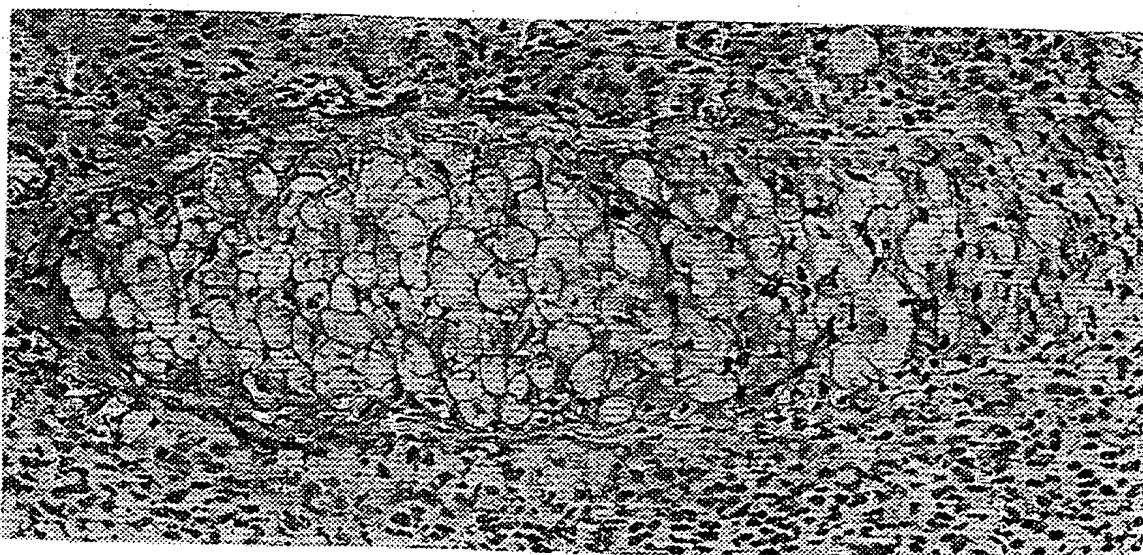
A



B



C



SUBSTITUTE SHEET (RULE 26)

FIGURE 11

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Human RNA Master blot

Tissue	$\alpha 10$ expression	Tissue	$\alpha 10$ expression
Aorta	++++	Thyroid gland	-
Trachea	+	Salivary gland	-
Lung	++	Spleen	-
Fetal lung	++	Fetal spleen	-
Kidney	++	Thymus	-
Fetal kidney	(+)	Fetal thymus	-
Heart	(+)	Peripheral leucocyte	-
Fetal heart	++	Lymph node	-
Spinal cord	++	Appendix	-
Mammary gland	(+)	Placenta	-
Bone marrow	(+)	Whole brain	-
Small intestine	(+)	Fetal brain	-
Skeletal muscle	-	Amygdala	-
Liver	-	Caudate nucleus	-
Fetal liver	-	Cerebellum	-
Colon	-	Cerebral cortex	-
Bladder	-	Frontal lobe	-
Uterus	-	Hippocampus	-
Prostate	-	Medulla oblongata	-
Stomach	-	Occipital lobe	-
Testis	-	Putamen	-
Ovary	-	Substantia nigra	-
Pancreas	-	Temporal lobe	-
Pituitary gland	-	Thalamus	-
Adrenal gland	-	Subthalamic nucleus	-

FIGURE 12

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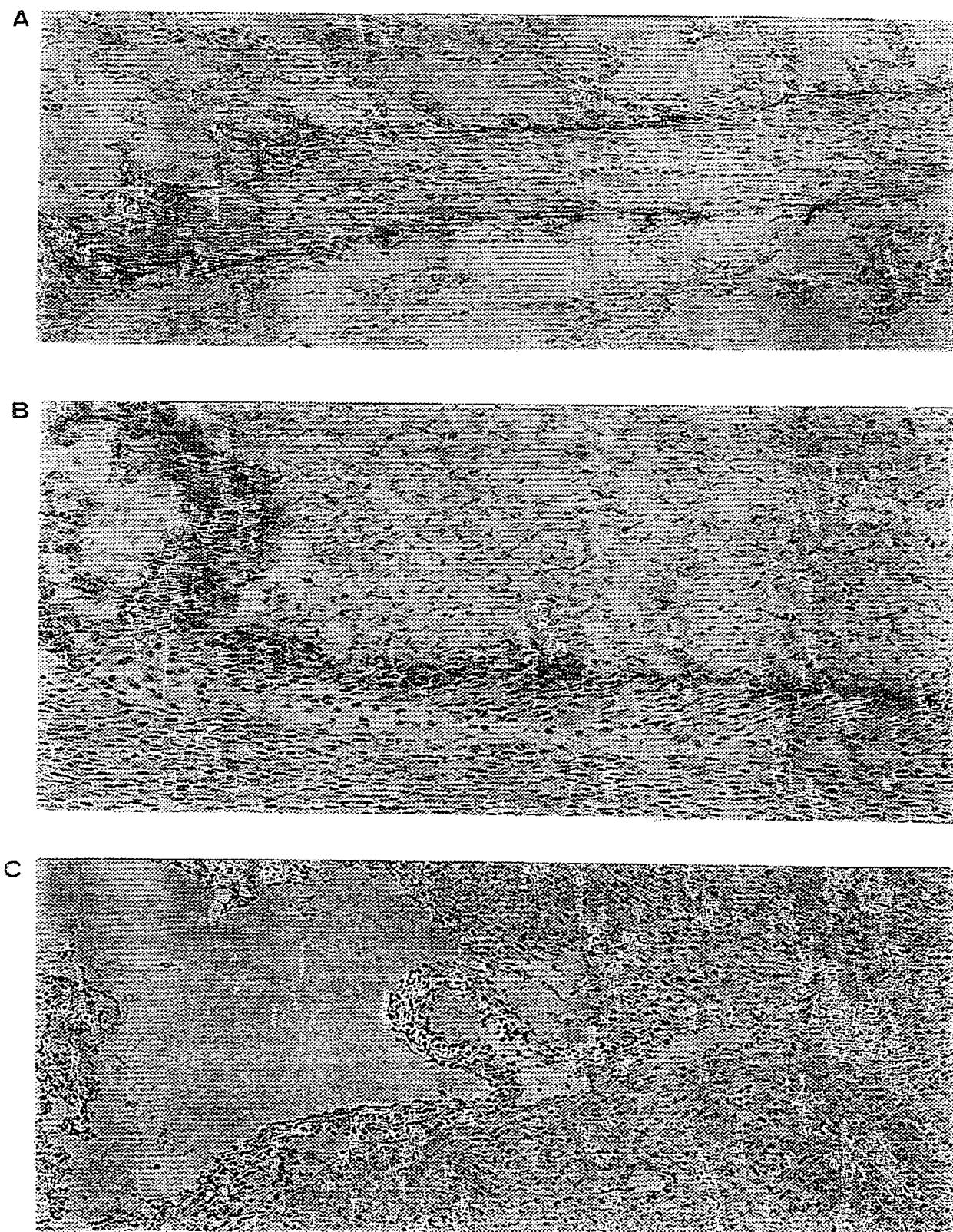


FIGURE 13

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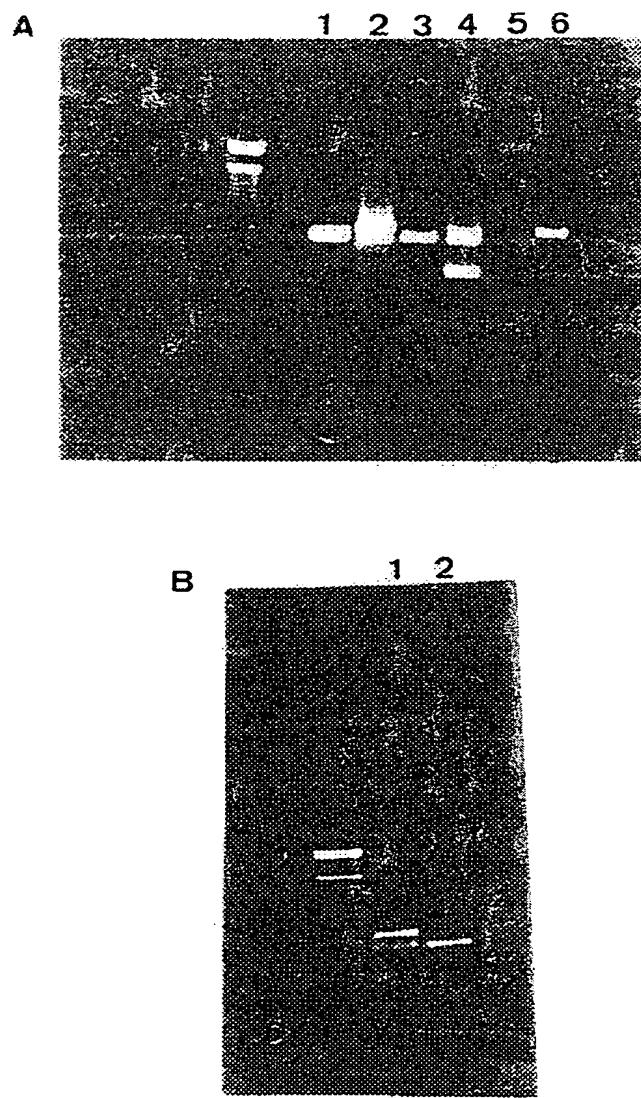


FIGURE 14

TGNTMMMKCMCACGAAKGWSAKCNCCGAKGCTKGKGVAAVGTGACARAGCTNGMNAAAARANGAAGTATGACCGWTGGGC 80
 ? ? ? ? R ? ? ? P ? V ? ? ? D ? A ? ? K ? K Y D ? W A
 ? ? ? ? H ? ? ? ? R ? ? ? ? V T ? L ? K ? ? S M T ? G
 V ? ? ? T ? ? ? ? G ? ? ? ? Q S ? ? K ? E V . P V G
 CRAGATAGMKAMDAAGCNGMSAGKTRAMGGACGATGGNCMGCACAVGABWCGNAAHBCGGCNWDCARNGTCAAATK 160
 ? ? I ? ? K ? ? ? G R W ? ? Q ? ? G ? ? G ? Q ? P N
 P ? R ? ? S ? ? ? D D G P A ? R ? ? ? A ? ? ? V Q ?
 ? D ? ? ? A ? ? R T M ? ? P ? ? ? ? R ? ? ? S K ?
 SANKTCSAGGAACCCACGGAMGGCTCGCARCCCDTAGGGATCAGGKACGATGRCTCSCCGRNSKACTCSGNKTGATWA 240
 ? ? ? R N ? R ? G S ? Q P ? G I R ? D ? S P ? ? S ? . ?
 ? ? ? G T ? G ? A R ? P . G S G T M ? ? R ? ? T ? ? D ?
 ? S Q E P T ? W L A ? ? R D Q ? R ? L ? ? L ? ? I
 ATCGNNWGTMGGMAGCGGHHGGAATRWAAGTANTGGTMGAMAKATGWGVMGGAWATGATRRTGMACTVTHVMGGVAK 320
 ? ? ? R ? A ? E L ? S ? G R ? M ? R ? - ? V D ? ? G ?
 S ? V G R R R N ? K V ? V ? ? ? ? G ? D ? ? T ? ? ? ?
 N R ? ? ? G G G I ? K ? W ? ? ? ? M ? ? ? R L ? R ?
 VTAKSGGTACAGGCGAAKACARGRAKGTGCTGAGGAADTCAGNAGGACAAMMTGCGGAAGTCMGGACTTAGKATRGAT 400
 ? ? Y R ? Q ? ? V ? G ? Q ? D ? ? A E V R T . ? ?
 ? ? G T G E ? ? ? V S E E ? ? ? R T ? L P K S G L ? ? D
 ? ? V Q A ? T ? ? C L R ? S ? G Q ? C R S ? D L ? ? I
 ACGAANCKTRGATCTTAMADGGGGGNKACCGAGGTGCTAAACGVARATRGGSWGTCTACTTMAACNCCAAGNGDGGACA 480
 Y E ? ? I L ? G G ? R V ? K R ? ? ? ? L L ? ? Q ? ? T
 T ? ? ? S ? ? G ? S E C ? N ? ? ? V Y ? N ? K ? G H
 R ? ? ? D L ? ? G ? A S A . T ? ? G ? S T ? T P ? ? D
 TTTACTAGASGAGGAGAGTAGCCAGATCACDTGAGATGATCTAAGTGGGGTCCCGTTGCCAGTATATGACAGGACTGCT 560
 F T R ? G E . P D H ? R . S ? V G S R C Q Y M R G L V
 L L ? E E S S Q I T . D D L ? W G P V A S I . E D W
 I Y . ? R R V A R S ? E M I . ? G V P L P V Y E R T G
 TCGGAGACATWGATGCTTTGCTGACTCACATATTGTCVAGKATGATCAGATACTGWTGTCCTCATCA 640
 R Q T ? M L F A D S H I V A ? ? M I R Y D L ? S L I
 F G R H ? C S L L T H I L L P . ? . S D T I ? C P S S
 S A D I D A L C . L T Y C C ? E ? D Q I R S ? V P H H
 TGAATSTGRGCCGTATGCTATGAGATTGCCATATGATGGAACAAGAGACTTMTGCTACAGCAGGCGAATGAAGGTTTC 720
 M N ? ? R D A N E I R L . W N K R L ? L Q O A N E G F
 ? ? A V M L M R F A Y D G T R D ? C Y S R R M K V S
 E ? ? P . C . D S P M M E Q E T ? A T A G E . R F
 TAGAGTAGGAGTCTCAGGAGGAGAGAACTGGGACCTGGGACCTGGAGGACCAGGGACTCCAGGAGGAAGTWGCCACAAGTGGCTT 800
 . S R S L R R R E T V D L E D Q G L Q E E V A T T G L
 R V G V S G E K L W T W R T R D S R R K ? P Q L A L
 L E . E S Q E E R N C G P G F G T P G G S ? H N W L
 GHAGTTTGGCTCCGATCCGTACWGCTCGTCCCTVGAGTTATCCCCCTCTTGGCTGGATGGCTCAGAAATGCCCTG 880
 ? F R L R S . Y ? L V L ? V I P L S C W M A Q K C L
 ? S F G S D P D T G S S ? E L S P S L A G W L R N A W
 ? V S A P I L I ? A R P ? S Y P P L L L D G S E M P G
 ACCTTTTCACTCCCCACTGGACAAACTAGGCGCTGGCCTGGCCATTGTGGGGCTGTGTGGCTCATATCCCTC 960
 D L F I P T G Q T R R L A L W P W D C G A V W P H I S L
 T E S S P L D K L G V W R C G P G I V G L C G L I S S
 P F H P H W T N . A S G V V A L G L W G C V A S Y P
 CATTCTGTCTATTCTCACCTTAATCTGCCCTGGNACTGACTCAAGCCYGAUTGACAMTGTGGTACAAGATAAGGAGGG 1040
 H S V Y S H P N L S L ? T T Q A ? T D ? V V Q D K E G
 I L L S I L T L I C P W ? R L K P ? L T ? W Y K I R R
 P F C L F S P . S V P G Y D S S P D . ? C G T R . G G
 AGCCCAGGTGGGTGAGATGGAAGCTGAGATGGTNCACTGTGTGCCMACTCATGTAATTCAACTNCCTGACTGAAGTT 1120
 A Q V G E M E A E M V H C V P T S L . F N ? L D . S
 E P R W V R W K L R W ? T V C ? P H C N S T ? L T E V
 S P G G . D G S . D G ? L C A ? L I V I Q L P . L K L
 AAAATCCAGATCCYTAGGGATGGGGAGAACCTGCCAAAGACGGGTCAAGAAGGAGTGTCTAAGGGAGGGCTCTGCA 1200
 . N P D P . G . G E E P A K D G S G R Q C . G K A P A
 K I Q I ? R D E G K N L P K T G Q E G S A K G R L L Q
 K S R S L G M R G R T C Q R R V R K A V L R E G S C
 GGCCTCTGGCAATTGGACTTCATTCACTGGCTTCCCTGGCCAGATATTAAAGGAGGGGGTGGGTACTCT 1280
 G L C S W T S F S P I A R I S . L F P L S L C L E S S
 A S A V G L H S V P L P E S H S S S ? Y L S V L S L
 R P L Q L D F I Q S H C Q N L I A L P ? I S L S . V .
 TTAAGAATTGTTACCGAGACAGAATTCTTCTTAGGCTCTGGCCAGATATTAAAGGAGGGGGTGGGTACTCT 1360
 . E F V T G D R I L F L S L L A R Y L K G G G H V T
 V K N L L P E T E F S F L A S W P D I . K E R G G G L L
 L R I C Y R R Q N S L S . P P G Q I F K R R G V G Y F

FIGURE 15b

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CAGGTGAGGGAAAGCAAACCTGGTTCTGCTGGGAATGGAAGTTATGTGGATTGTTATAATTGGGACCATATGGCTAAA 2800
 R G K Q T W F L L G M E V M W I V Y N W D H Y G .
 T G E G S K L G F C W E W K L C G L F I I G T I M A K
 Q V R E A N L V S A G N G S Y V D C L . L G P L W L K
 ATCTYGGGGCGCTCAGGTCGGAGGTTAACCGATGCTATTTCTGTCGACTCATGTTCTAGACACCCAAATGG 2880
 N L A G A Q V G G . Y R C Y I S C V H S C S - T P K W
 I ? R A L R S E V N T D A I F P V C T H V L R H P N G
 S ? G R S G R R L I P M L Y F L C A L M F L D T Q M
 CAGTGGGCAAAACTCTCTGGCTTGTACCTCATTATCTAAACCTTGTACCTAATTATCTAAACCTGGCCCTAAACT 2960
 Q W P K L P L A C T S L S K P L Y L I I . N L G P K L
 S G Q N F L W L V P H Y L N L C T . L S K T L V L N
 A V A K T S S G L Y L I I . T F V P N Y L K P W S . T
 CCACAGACATGAGGGCACAGAAAAGAGACGCTCTCATCTCCATTGGTTACACTGATTCCTACCTCCCTGCTCT 3040
 H R H E G T E K R R V S H L P F G Y T D S Y L P C F
 S T D M R A Q K R D V S L I F H S V T L I P T F P A S
 F Q T . G H R K E T C L S S S I R L H . F L P S L L L
 CCTGGCATTGGTGCCTGGTGCCTGGAGGCTAAATTGCTTACTATGTGGTCAGAACTCTGGGTCGCTAACGACCG 3120
 S L P K L L G A . G T I A L L C G Q N S G F A - R P
 P C H W C S L V P B A . L P Y Y V V R T L G S P N D R
 P A I G A P W C L R H N C L T M W S E L W V R L T T
 AGCTACAGTTCTGGTCTCATAGCCCCTGCAATTCTGGATTAAAAAAAAGGCTCACATATAAAACCTTTCTGA 3200
 S Y S F W S H S P A N F L D . K K K A H I - N T F S E
 A T V S G L I A L P I S W I K K K R L T Y K I P F L
 E L O F L V S . P C Q F P G L K K K G S H I K Y L F .
 AAATGAGCACAGTGTGAGTTAGATTTGGGGATGGAGGTTGCTGAGCAAGAGACAGTAGAGAGAAG 3280
 N E H S V S - S . I L G D G G L L G C K E Q D S R E
 K M S T V . V E V R F W G M E G C L D A K S K T V E K
 K . A Q C E I K L D F G G W R V A W M Q R A R Q . R R
 AGAATCATGGGAGGATAAGAGGCTGAATTTCCTGCTAGTGCCTATAATTCTTGTCTTCTAAACACGCTCTG 3360
 E N H G R D K R L E F F P A S A L . S L F P K I T A L
 R I M G G I R G W N F S S L L P Y N L C F L K . Q L .
 E S W E G . E A G I F P C . C P I I F V S . N N S S
 ATTTATGGGAAATTGGGGTCAGGAGAAAAGAATCAGTAGGCACAGATGGGACCCCAAGCGTGACTAAAGTTGAGGAA 3440
 I L W E L G S G E P N Q . A Q M G P Q A W T K V . G N
 F Y G N W G Q E K G I S R H R W D P K R G L K F E E
 D F M G I G V R R K C E S V G T D G T P S V D . S L R K
 CTATGGGAGTAGGCAAGGGTGTGTTGTAAGGTGGATGAGATGAGGAGATTGTTGGTGGGGAGTCTGGGGGTGATAGG 3520
 Y G S R Q G V F V R W M R . G D C G G G E S W G .
 T M G V G K G C L . G G . D E E I V V G G S L G G D R
 L W E . A R G V C K V D E M R R L W W G V L G V I G
 ACCCTTAACAGGGATAGATGGCAAACCTGTGTGTCGGCAGGGCGTGGTTCCACCCACTTAATTAGCGTTGAGGTTGGCAG 3600
 D P . Q G . M A N C V W A G R W F H P L N . R . G W Q
 T L N R D R W Q T V C G Q A G G S T H L I S V B V G R
 P L T G I D G K L C V G R P V V P F T . L A L R L A
 GGCTGGAGGAGGCCAGCACTCTCACACCTGGAGAAAGTCGAAGTGTGACAAGAGAAAAGAGACACCCGGC 3680
 G W K E P A L S T L E K V Q V . Q E E T E R G D T R A
 A G R S Q H S O P W R K C K C D K K K Q K E E T P G
 G L E G A S T L N L G E S A S V T R R N R K R R H P G
 AGGGAGCTCTGGCATGGTTCTCCATGGCCCTGGCTTGGGAAAGAATTAGGAAGGGTGTGACTCTGCATCTCA 3760
 G S S L P S F L P M A L A L G R I R K G W . L C I L
 Q G A P C H R F F P W P W L W E E L G K G D S A S S
 R E L L A I V S S H G P G F G K N . E R V V T L H P Q
 GAAAAGCCCTCTCTCCCTTGGACTCTGGAGGGTTAGAGAGGAGAATGTGTAGGAGGAATGATGTGAAAGAGTAAC 3840
 R K A L S P S L D S R G L E R R M C R R N D V E R V T
 E K P S L P L W T L E A . R G E C V G G G M H W K E . L
 K S P L S F G L S R L R E E N V . E . C G K S N
 TGACCTATCCAGATCTGTGAAATGAGATTCAGGAATGAGAAATGAGCTGTGCTTCACCATGGCCGAGGGC 3920
 P I Q M C L . M R F Q E . E W K Y S C A S A W P P A
 D L S R C V C E . D F R N E N G N T A V L Q H G R G
 L T Y P D V S V N E I S G H R M E I Q L C F S M A E G
 CTTAGGATCCCTCACCCCCACCCACAGGAAGAGAATCATCCAATCATCCCACCTGGGGTCTGAGGACATGACATTGAC 4000
 L G S L T P T P Q E E N H P I I P F G V L R T . H .
 P . D P S P P P P H R K R I I Q S S H L G F . G H D I D
 L R I P H P H P T G R E S S N H P T W G S E D M T L T
 ACAGAGCAGGAGAGCTGAGATAGAAACACTCCCTCTGCTTGTCTCCACTAACGCTCACCCACTCTGAGGACATGACATTGAC 4080
 H R A G E L R . K H S L L S C L P L S L T S P S L T D
 T E Q E S . D R N T P S C L V S H . A S P V L H . L I
 Q S R R A E I E T L P P V L S P T K P H Q S F I N .

FIGURE 15c

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TCGTGGATGCTAATTATGATCCTCACCCCTCAGGTCTGCTCCCCCTTAATCTGGATGAAACACCACCCACGACTCTTC 4160
 W W M L I M I L T P Q V S A F P L I W M N T T H D S S
 G G C . L . S S P L R S L L P L . S G . T P P T T L L
 L V D A N Y D P H P S G L C S P F N L D E H H P R L E
 ACAGGGCCACCAAGAGGCCAATTGGATACAGTGTCTACAGCATGTTGGGGTGACAGCGATGGTGAAGAGGGAAAACA 4240
 Q G H Q R P N L D T V S Y S M L G V D S D G E R E N
 H R A T T R G R I W I Q C L T A C W G W T A M V R G K T
 T G F P E A E F G Y S V L O H V G G G O R W . E G K Q
 GAGGACCGTGGGATCGGGACTATGCACTCACTGATAAAGGGAGGACCGTCCAAGCTGGCTTGTAAAGTGCCTGGGC 4320
 R G P W D R D Y A L T D K G E D R S K L A F E S A W G
 E D R G I G T M H S L I K G R T G P S W P L K V P G A
 R T V G S G L C T H . R G G P V Q A G L . K C L G
 TCCATGACGTCTCATGCACTCTCCCTCACTATACTAAGGACCATGCTACCGGATCTTATATCCATATTCTCCCTCC 4400
 S M T S H A L S L S L Y . G P C S P D L Y I H I L L P
 P . R L M H S P S H Y T K D H A H R I F I S I F S S F
 L H D V S C T L P L T I L R T M L T G S L Y P Y S P S
 AGGATGCTGGGGTCCCCCTGGGATGGGCATCAGGTGACCGGAGAGGGATGTTATGCTGCTATAGGGGATT 4480
 G C W W V P P G M G H Q V T G E G M F I V A L . G D
 Q D A G G G C P L G W A I R . P E R G G C L S L L Y R G I
 R M L V G A P W D G F S G D R G D V Y R C S I G G F
 CCACAGTGTCCATGTACCAAAGGCCACCTGGGTAAGAAGGCTGACCTTCCCTGCTAATCTGATGTCATC 4560
 S T V L H V P K A T W V R R S L T F P L L I P D V D I
 P Q C S M Y Q R P P G . E E A L . P F F P C . F L M L T S
 H S A P C T K G H I G K K K P D L S P A N S . C . H
 TAGTAACCTGACCCCTGGACCTTGCTCTCAATGACCCGAACTATGACCCCATGACTTCATTCT 4640
 L . P L G P C L Q . P . T K E A E L . P H D F I L
 S N S D P L D L V F N D P E L K K P N Y D F M T S F
 L V T L T F W T L S S M T L N . R S R T M T P . L H S
 CCTCTACCCCTCTCCACCACGGTGAATCAACTGGAAATTCTCTCAGCCTGCTGTAATATGCACCTAGGGATGTC 4720
 F Y P S S N Q V T I N L E I P L S L L . I C T . G C
 S S T L L P P T R . L S T W K F L S A C C E Y A P R D V
 L L P F L Q P G D Y Q L G N S S Q P A V N M H L G M S
 TCTACTAGAGACAGATGCTGATGGGGATTATGGTGAGCTGAAAGAAGGGCTCAGAAGGTTCACAGCAGGGAAAGAG 4800
 L Y . R Q M L M G D S W . A E R R A S E G S Q Q G R E
 S T R D R C . W G I H G E L K B G P Q K V H S R E E S
 L L E T D A D G G F M V S . K K G L R R F T A G K R
 CATTATGGATCTGGGAGCTGGCTGGGCTTTATCCAGTGGTCTGGAGGGCAGAGTCAGGCTGATCTACAGAGT 4880
 H Y G I W A V V A W A F H P S V L E A E S G L I Y R V
 I I M V S G Q W W L G P F I P V F W R Q S O A . S T E V
 A L W Y L G S G G L G L S S O C S G G R V R P D L Q S
 GAGCTCCAGGACAGCCAAAGGCTATGCAGAGAAACCTGTTGAAAACCAAACCTAACCAAACAAACAAAC 4960
 S S R T A K A M Q R N P V L K N P K P K L T K Q Q O
 - A P G Q P R L C R E T L F F - K T Q N Q N . P N N N N
 - E L Q D S Q G Y A E K P C F E K P K T K T N Q T T T T
 AGAAAAAAGCAGGCTGGTAAGGGAAATTAGTCTGATAGAAGAGACAGGAACTCAAAACCTAGAGAGCAAGGAGGGTT 5040
 Q K K H R G K G N . S V . K R Q G I Q N P R E O G R V
 R K S T V V R E I S L Y R R D K E F K T L E S K A G F
 E K A P W . G K L V C I E E T R N S K F . R A R Q G
 CCCCCATGGAGTGGCTCCATCTCTTTAACTAGGTGTGTTCCAGAGGGCCCTCTCAAGCCTGGGATAACTATTC 5120
 P H G V V S I S L L T R C C V F R E A L S S L G I T I S
 P M E W S F S L F . L G V C S E R P P S Q A W G . L F
 S P W S G L H L S F N . V C V P R G P L K P G D N Y F
 TCTCTATCCACCCAGGCCGTGCCCCCTTTGGTCTCGCTGCCAGCTGCTCTCAAGCCTGGGATAACTATTC 5200
 P I H P G L C F S L V S C L R Q L C L Q F W N M C P
 L L S T Q A C A P L W S R A C G S S V F S S G I C A R
 S Y P P R P V P L F G L V P A A A L S S V L E Y V P V
 GTGGATGCTTCATTGGGCCCCAGGGAAAGCCCTGGCACCCACCGCCAAAGTGGAGGGCTCTGCATGGATCTCATCTAC 5280
 C G C F I P A P G K P G T H R P T . A S G R A L E A Q
 V W D A S F R P O G S L A P T A Q R E P V E G P W K L S
 W M L H S G P R E A W H P P P N V S Q W K G P G S S S
 TTCCCAGATAGGGATGCTGGGAGGGAAACTAGGACAAAGACTGGTGAGGGCTCTGCATGGATCTCATCTAC 5360
 F P D R D A G W E K L G Q R L G G G S A W L S S S F F
 S Q I G M L G G K N . D K D L V E G L H G Y P H H S P
 V F R . G C W V G K T R T K T W W R V C M A I L I T I P
 AAGTGTGCTTGGAGAGAGGCTCTGTTGCTAATGATTAGAATTCAAGACTCTTAGGAGAGGCTCAAGACACCAAGGAT 5440
 S V L A E E A P V C . L I R I Q T P . E S L K T P G
 Q V C L Q K R L L P A N . L S F R L L R R A S R H Q D
 K C A C R R G S C L L T D . N S D S L G S P Q D T R I

FIGURE 15d

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CTGGTTTACCAACTTAAAAACAAAACAGCATATCTGTGCACAGCTATCCCTATCCATCACGTCTCCAT 5520
 S G F T N L K T K Q N S I S C A Q P I F H P S R V L H
 L V L P T . K Q N K T A Y P V H S L S L I H H V S S I
 W F Y Q L K N K T K Q H I L C T A Y P S S I T C P P
 ATCTTATTTTGTGGGCTTATAGATGCCAAGTCAGCACTCAGTTATTGGGTCTCCCTCATGCCCTCATATACTTC 5600
 I L F L W V L . M P S Q H S V I G F S P H A F H I L S
 S Y F C G S Y R C Q V S T Q L L G S P L M P F I Y F
 Y L I F V G L I D A K S A L S Y W V L P S C L S Y T F
 TTATCTACTGCCCTTGGGAGATAGTCTTATGTAGCCCAGGCTGTCTTGTATCTGGATTGCTTGCCTCAGCTTCTCA 5680
 Y L L P F G R . S Y V A Q A V L D L G I C L P Q L L
 L I Y C L L G D S L M . P R L S L I L E F A C L S F S
 L S T A F W E I V L C S F G C P . S W N L L A S A S Q
 GTCTCAAGTACTGGGATAATAGGCATGCATTGCTGCCCTTGTCAATGCCCTCTGGCCATTGGTAGGGCA 5760
 S L K Y W D N R H A L S A W P L L N M P S V A I G R A
 V S S T G I I G M H C L P G L C . T C P L W P L V G H
 S Q V L G . . A C I V C L A F A E H A L C G H W . G
 TGAGTCATAACTGCCCTCCCCACACACACACACACACAGAAAGTGAGGCTCTAAGTGTCCATAGCACAGGGTAGT 5840
 V K Y C P P P Q H T H K R K . G S L S V P . H R V V
 E S N T A L P H N T H T N E S E A L . V F H S T G .
 M S Q I L P S P T T H T Q T K V R L S K C S I A Q G S
 GGTAGGCCCTCGCTAGTGCATATTCTTACTCTGCCATCTCTTGTGATTTCCACACTGGGACTG 5920
 V G L S L V H I S F E Y S A H L F F L . F P H W G F
 W . A S R . C I F H S F T L P I S S F F D F H T G D L
 G R P L A S A Y F I L L L C P S L L S L I S T L G T W
 GCATAGTACTTCCCGTAATTAGAGAGAATCCCTTTAAGTGCCTGCATTGAGCGCTCTGGGACATTCTCCCT 6000
 G I V L S W . L R E N S L L S A C I A A S S W D I L P
 A . Y F P G N . E R I P F . V P A L Q R P P G T F S L
 H S T F L V I K R E F P F K C L H C S V L L G H S F
 TGCTGACTACACCCACATCTTCCATGTTTTGTTCCATCACTATGCCCTCTAGGCTGTCCACATACATGG 6080
 G . L H F T S F H V F C F P S L C P P S R L S H I H G
 A D Y T P H P P S M F F V S H H Y A P P L G C P T Y M
 L L T T P H I L P C F L F P I T M P P F . A V P H T W
 ATGTCGTCAATTGTTGGATGGCTCCACAGTATCTATCCCTGGTCAGAAGTCAGACTTCTCGAGGCTGGTAGGA 6160
 C R H C F G W L Q G Y L S L V R S S D F P S E A G R
 D V V I V I D G S N S I Y P W S E V Q O T F L R R R L V G
 M S S L F W M A P T V S T P G Q K F R L S F G G W . E
 AGACTGTCATCGATCCGGAGCAGATACAGTAAGAGAAAGATATGTGGATAGGATTGGAGGGAAAGAACTAACACTCC 6240
 K T V H R S G A D T G K R K I C G . D W R E R S K H S
 H L F I D P E Q I O V R E R Y V D R I G G K E V N T P
 D C S S I R S R Y R . E K D M W I G L E G K K . T L
 TGGACCCCTGGATGAAGCAGCCATGTCAGGCCCTTGATGACACCCCTGGACATTGCTCTACAGAACTCATGCTCAA 6320
 W T L G C K Q P C P A S . H P G T L S S T E L M L K
 G P L D V S S H V Q P L D D T L G H C L L Q N S C S
 L D P W M . A A M S S L L M T P W D I V F Y R T H A Q
 GAACTGTGCAATTAACCTACCAAAAGTCACAAAAATTCTATAATGTTGAAGTAAGTTATGATTGTGGGGGGCAC 6400
 N C A I N L P K S H K N F I M F E V S L . L C G G F
 R T V Q L T Y Q K V T K I S . C L K . V Y D C V G G H
 E L C N . L T K K S Q K F H N V . S K F M I V W G A T
 ACTCAGAGCTTCCCTTGCTGCTGTAGTGCCTGGCAATGCATGCCATGAGCTGCAAGTAGACACACCTGTTCACTT 6480
 H S E L P F A A C S C L G N A C H E L Q V R H T C S L
 T Q S F F L L V V A W A M H A M S C K L D T T P V H F
 L R A S L C C L . L L G Q C M P . A A S . T H L F T
 CCCCCTCATCGTGTGCAAGGTTGGACACACCTGTTAGGGGTCATCTCTTGCTCCATCTCTACAG 6560
 P L H R A A G W T H L L G V H F F I L C A P S S L R
 P F I V L Q V G H T C . G F T S P S F V L H L L Y
 S P S S C C R L D T P V R G S L P L H F L C S I F S T
 CTCTCATACATCCATGTGGGCACATGGTCTATTGTTCTCAGGTAGGACTGGTACAGTACAGGGAGAACCTGTGCATG 6640
 S S Y I P C G H M V Y C S Q V G I V Q Y G E N P V H
 A L H T S H V G T W S I V L R . D W Y S T G R T L C M
 L F I H F M W A H G L L F S G R T V R G E P C A .
 AGTGGTCCCTGGGAGACTTCGAGAACAGGAAGAGTTGTGAGGAGCAGAACCTAAGTGGAGGGAGAACCGAGAA 6720
 E W S L G D F R T K E E V V R A A R N L S R R E G R E
 S G P W E T S E Q R K K L . E Q Q G T . V G G K G E K
 V V P G R L P N K G R S C E S S K B P K S E G R A R
 ACGAGAACCGCCCAAGCGATCGTGTGAGACATTGTAAGGGGTCGTGTGAGGGAGGAGAACCGAG 6800
 T P T A Q A I M V A W . D I V K G S C E G G G R I S R
 R E P P K R S W W H G E T L . R G R V R E E E G S A
 N E N R P S D H G G M V R H C K G V V . G R R K D Q Q

FIGURE 15e

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GGAGAGGGAGAGGGTCTGGAGTGTAGTGTATACTACAGATGCTCTGGCGCTTATCTTATCTGCATGCCAGAAGTT 6880
 E R E R V W S V V Y T S Q D A L G A Y L Y L H A R S
 G R G R G S G V - C I H H K M L W A L I F I C M P E V
 G E G E G L E C S V Y I T R C S G R L S L S A C Q K F
 CGTGGAGGAAGGCTAGGTTGCTGTCAACCATACTCTCTTACTGTATTGCAATTATGGTGTGTGGGTGATCTCTC 6960
 S W R K A R L L S P Y S L L L Y L H F M V S V G V S L
 R G G R L G C C H H T L S Y C I C I L W C L W V Y L S
 V E E G . V A V T I L S L T V F A F Y G V C G C I S
 CTTGCTGTTCTGTTCTGACACAGAACTCCATCTTCTTACTCTGGCTCAATTCTGATACCTAGCTCTCAA 7040
 L V C S V S A H R T P S F L F Y S C V N S D T . L L N
 L S V L F L H T E L H L S S T P A S I L I P S F S
 P C L F C F C T Q N S I F F P L L L R Q F . Y L A S Q
 CCACTCACGCCCTAGTATTCTTCAACATGACTCTAACCTCTGGGAGGCTACATGACCTGACTGTCTTATTCTCC 7120
 H S R P S I L F K H D S K P L G R L H D L T V F I L
 T T H A L V F F S N M T L N L W G G Y M T . L S L F S
 P L T P . Y S F Q T . L . T S G E A T . P D C L Y S P
 AGTTCTTGATCTTGCAACCCAGTGTGAATGAACTATAAAATAATGCTTGACATATTTACACTGATGA 7200
 Q F L D L V N P S V C . M N L . I N N A C T Y L H . .
 S S L I L S T Q V F A E . I Y K . I M L V H I Y T D D
 V P . S C Q F K C L L N E S I N K . C L Y I F T L M
 CACATTATTTATGTTCTGCTAACAGTCAGTCAAGTTGACTCTGTGCCAGTTGCACTGCTAGATACTGTTGGG 7280
 Q I I L Y V P C H L N S Q V V T L C Q F A C . I L L G
 R L F Y M F R A I . T V K L . L C A S L H A R Y C W
 T D Y F I C S V P S K Q S S C D S V P V C M L D T V G
 GAATGGTGTAGAAGACATGACCTAGTGAACGTGACAGTGTAAACACTATAACGGGATGCTGCATGCAAGCCT 7360
 N G V E D I . P Q . T A D S V N T L Y G H A C M Q A
 G M V . K T S D L S E L L T V L I H Y T G M P A C K P
 E W C R R H L T S V N C . Q C . Y T I R A C L H A S L
 GTGTGTATGTGCATGCATATGACACACATACATGACCATATAGCATTCTTATCTCTCTTAGCACAGAAGGGT 7440
 C V Y V H A Y A H T Y I . P Y S I L L S L F L A Q K G
 V C M C M H M H T H T Y D H I A F F Y L S S . H R R V
 C V C A C I G T H I H M T I . H S F I S L L S T E G
 TCAGTCAGTCCGGGGGGGAGCACAGGGCGCTAGGCTGCTGGTAGTTGACTGATGGAGAGTCCCATGATGGAGAG 7520
 S V S P G G D D Q R P L G C W . L S L M E S P M M E R
 Q S V P G G T T R G R . A A G S C H . W R V P . W R
 E S O S R G G R P E A A R L L V V V T D G E S H D G E
 GAACCTCCAGCAGCGCTAAAGGCCGTGAGGCTGGCAGAGTGAACAGTTATGGATTGCGGTGAGACTGATCAAGTCCA 7600
 N F Q Q R . R P V R L A E . H V M G L R . D L I K S
 G T S S S A K G L . G W Q S D T L W D C G E T . S S P
 E L P A A L K A C E A G R V T R Y G I A V R L D Q V Q
 GTGTGTTGTTGTTGTTGATCGTGTGTGTGTGTGTGTGTGTGTGTGTGTATGTGTAT 7680
 S C F V L C C I V C V C V C V C V C V C V C V Y V . Y
 V V L F C V V S C V C V C V C V C V C V C V C M C D M
 L F C F V L Y R V C V C V C V C V C V C V C V I
 GTGTGCATGCATAGTCAGTCACATACCATAGTGTGTATATGCCGGTCAGAGAACACCTCAGATGTGGTCTCACCTTCCA 7760
 V C M H Q C T Y H S V Y M R V R E Q P Q M L V L T F H
 C A C I S A H T I V C I C G S E N N L R C W S S P S
 C V H A S V H I F . C V Y A G Q R T T S D V G P H L P
 TCTTGTCCAACTGGATATCTGTTCACTCGGCATACATAAAGCCAGATTAGCTGACCCACAAGTCTGGCAGGTCT 7840
 L V P N W I S C S L R H T I S Q I S . P T S L G Q V
 I L F Q T G Y L V H F G I Q . A R L A D P Q V L G R S
 S C S K L D I L F T S A Y N K P D . L T H K S W A G L
 TCTGTCAGCCCTGTCCTGGGAGGCATCTGGATTACAGATAAGCTGATATCGAATTCTGCAGCCCG 7920
 F C L S L L S L G L R H S G I Y R . A . Y R I P A A R
 S V S A S C L L V . G I L E F T D K L D I E F L Q P G
 L S Q P P V S W F E A F W N L Q I S L I S N S C S P
 G G A T C C A C T A G T C A G A G C G G C C C A C C A G G G A G 7958
 G I H . F . S G R H Q G S
 G S T S S R A A A T K G
 G D P L V L E R P P P R E

FIGURE 15f

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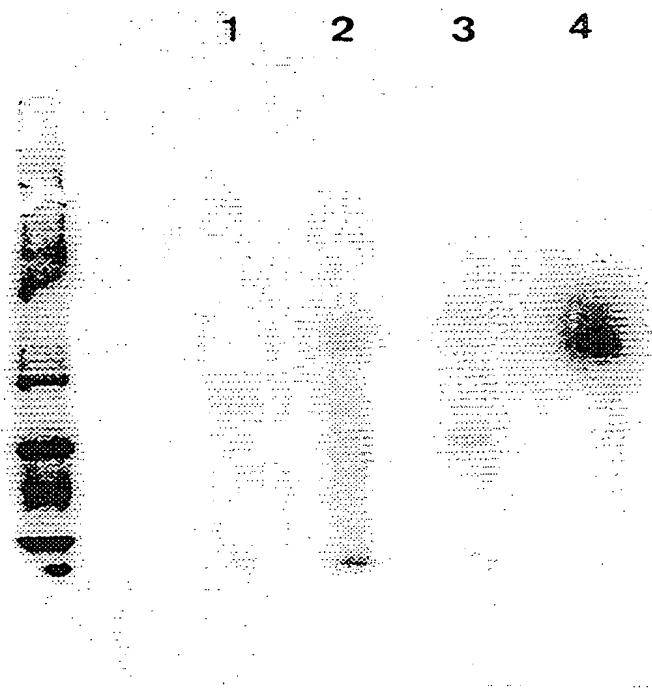


FIGURE 16

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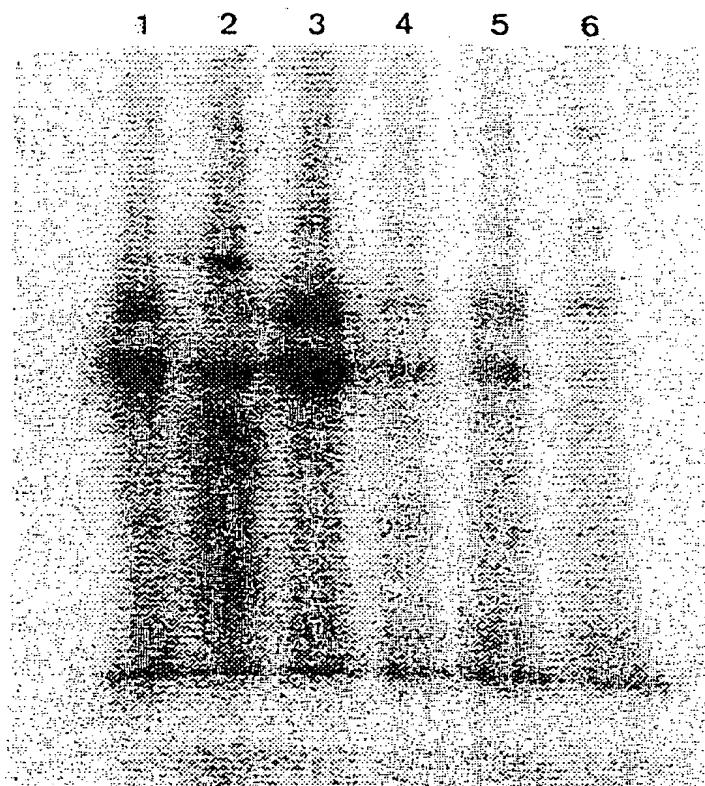


FIGURE 17